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## What is claimed is:

A device for feeding particulate material, comprising:
 a conveyor belt that conveys the material in a forward longitudinal ection;

a material inlet located above at least a first portion of the conveyor belt; and

a movable plate located above at least a second portion of the conveyor belt, that provides a force on the particulate material.

- 2. A device according to claim 1, wherein the plate is mounted for pivotal movement.
  - 3. A device according to claim 1, further comprising a hinge that supports the plate for pivotal movement.

4. A device according to claim 1, further comprising a power actuator that moves the plate.

- 5. A device according to claim 4, wherein the power actuator is an 20 air cylinder.
  - 6. A device according to claim 4, further comprising a controller that controls the force applied by the plate.

- 7. A device according to claim 1, further comprising a controller that controls the position of the plate.
- 8. A device according to claim 1, wherein the plate is mounted for movement to a first position at which the plate substantially prevents movement of coal in the longitudinal direction.
- 9. A device according to claim 1, further comprising a pair of side skirts extending substantially along at least a portion of the length of the conveyor.
  - 10. A device according to claim 9, further comprising a rear end skirt that extends across the width of the belt located in a rearward direction from the material inlet.

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and

11. A device for feeding particulate material, comprising:
means for conveying the material in a first longitudinal direction;

means for urging a movable plate against the material to apply a force against the material in a direction other than the first longitudinal direction.

- 12. A device according to claim 11, further comprising means for supporting the plate for pivotal movement.
- 13. A device according to claim 11, further comprising a power

actuating means for moving the plate

14. A device according to claim 13, further comprising means for controlling the force applied by the plate.

5

- 15. A device according to claim 13, further comprising means for controlling the position of the plate.
- 16. A method for feeding particulate material, comprising:

  conveying the material in a first longitudinal direction; and

  urging a movable plate against the material to apply a force
  against the material in a direction other than the first longitudinal direction.
- 17. A method according to claim 16, further comprising the step of supporting the plate for pivotal movement.
  - 18. A method according to claim 16, further comprising the step of moving the plate by a power actuator.
- 20 19. A method according to claim 16, further comprising the step of controlling the force applied by the plate.
  - 20. A method according to claim 16, further comprising the step of controlling the position of the plate.